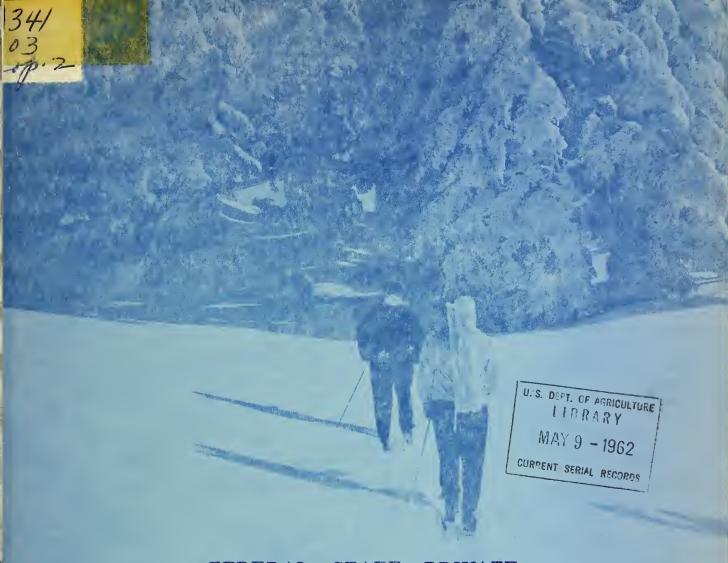
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FEDERAL - STATE - PRIVATE

COOPERATIVE

SNOW SURVEY and WATER SUPPLY FORECASTS for WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE, and

STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the Bureau of Reclamation, U.S. Forest Service, National Park Service, and other Federal, State and private organizations.

FEB. 1, 1960

UXD4 1C6 CHCOLR #680 1050

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	LOCATION	COOPERATING WITH
RIVER BASINS			
COLDRADO AND STATE OF UTAH	MONTHLY (JANMAY)	SALT LAKE CITY, UTAH.	UTAH STATE ENGINEER AND OTHER AGENCIES
COLUMBIA AND STATES OF IDAHO AND ALASKA	MONTHLY (JANMAY)	BOISE, IOAHO	. IDAHO STATE RECLAMATION ENGINEFR
UPPER MISSDURI AND STATEOF MONTANA	MONTHLY (FEBMAY)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
WEST-WIDE	OCT. 1. APR. 1. MAY 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ARIZONA	SEMI-MONTHLY(JAN.15 - APR.1)	- PHDENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOCIATION ARIZ. AGR. EXP. STATION
COLDRADO AND NEW MEXICO	MONTHLY (FEB MAY)	FORT COLLINS, COLORAGO -	. COLD. AGR. EXP. STATION COLO. STATE ENGINEER N. MEX. STATE ENGINEER
NEVADA	MONTHLY (FEBAPR.)	- REND. NEVADA	NEVAOA DEPT. DF CONSERVATION AND NATURAL RESDURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JANMAY)	PORTLAND, OREGON	ORE. AGR. EXP. STATION OREGON STATE ENGINEER
WASHIN GTDN	MONTHLY (FEBMAY)	SPDKANE, WASHINGTON	WASH. STATE DEPT. DF CONSERVATION
WYDMING	MONTHLY (FEBJUNE)	- CASPER. WYOMING	WYOMING STATE ENGINEER
Copies of these various	reports may be secured	from: Head, Water Suppl Soil Conservation 209 S. W. Fifth A	ly Forecasting Section 1 Service Ave., Portland 4, Oregon
	PUBLISHED BY 01	THER AGENCIES	
REPORT	ISSUED	<u>A (</u>	GENCY
BRITISH COLUMBIA	MONTHLY (FEBJUNE)		R RIGHTS BR., DEPT, DF LANOS IAMENT BLDG., VICTORIA, B.C.,
CALIFORNIA	MONTHLY (FEBMAY)	CALIFORNIA DEPT. C	F WATER RESDURCES, SACRAMENTD.

FEDERAL-STATE COOPERATIVE SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued February 1, 1960

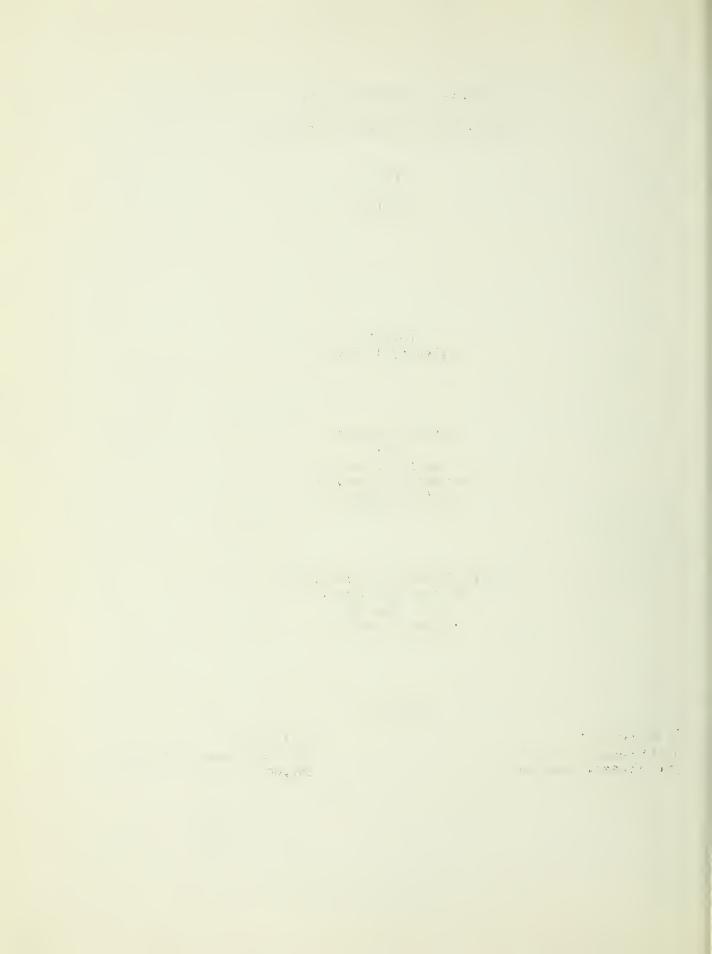
Report Prepared by George W. Peak Snow Survey Supervisor State of Wyoming

Soil Conservation Service 345 East 2nd Street P. O. Box 699 Casper, Wyoming

Issued by

B. H. Hopkins State Conservationist Soil Conservation Service

Earl Lloyd State Engineer of Wyoming Cheyenne, Wyoming



PRELIMINARY WATER SUPPLY OUTLOOK FOR WYOMING

February 1, 1960

The report by drainages is as follows: The Snake River at Moran is down to 64 per cent of the 1943-57 average, which is the base period for comparative purposes. Down stream, the anticipated runoff from tributaries increases to about 75 per cent of the normal inflow into Palisades reservoir. On the periphery of the Green River, snow surveys, soil moisture requirements and evaporation factors indicate a seasonal (April-September) supply of 70 per cent of normal at Warren Bridge and Fontenelle, with reduced discharges from the Little Snake River and Blacks Fork. The Wind River at Dubois is estimated at 85,000 acre feet, or 77 per cent of normal and the Shoshone River snow pack indicates 66% of normal into Buffalo Bill Reservoir. Flow from the Big Horn Mountains is estimated at this date to be close to 80% of average. The North Platte and its tributaries are in a more serious condition. The North Platte at North Gate is expected to yield 37%, the Encampment River and Snowy Range watersheds indicate a release of 58 per cent for the season and the flow in the North Platte past Saratoga is forecast at 295,000 acre feet, or 45 per cent of normal.

Reservoir storage on the North Platte in Wyoming is close to 81 per cent of the February 1 normal, reflecting the low runoff of 1959.

The Soil and Water Conservation Districts and Irrigation Districts under the Laramie River also face a serious shortage unless subsequent snow surveys find far above normal increments to the snow pack. At this date the watershed above Jelm indicates a flow of 65,000 acre feet, or 58 per cent of normal. The Wheatland reservoir contains 23,800 acre feet of storage which is 25 per cent of capacity.

The snow surveys are made on the first of each month, February 1 to and including May 1. As the season advances information concerning current conditions will be made available until snow melt occurs.



INDEX TO WYOMING SNOW COURSES

LO			LOCATION						LOCATION								
	WYOMING NUMBER	ELEV.	SEC. LAT. URI RIVER	TWP.	RANGE LONG.	RECORO BEGAN		MEAS. BY b		YOMING UMBER		SEC. LAT. JRI RIVER	TWP.	RANGE LONG.	RECORO BEGAN	MEAS. OATES a	MEAS. BY b
MA OI SON RIVER		11330	UNI NIVEN	ORATINA	NGE.				CROW CREEK		m13300	JKI KIVEK	URAINA	NGE.			
Norris Basin 21 Mile •m	10E2	7500 7150	440441	118	1 10°421 5E	1936 1934	3.4	2	Pole Mountain #2	5H I	8700	35	15N	72W	1936	2,3,4,5	1,4
West Yellowstone ∗m	IIE7	6700	34	135	5E	1934	1,2,3,4,5		NORTH PLATTE	enii	2400	10	Laki	70%	10.40	0045	
YELLOWSTONE									Albany Bottle Creek	6H8	9400 8200	18 24	14N 14N	78W 85W	1949 1936	2,3,4,5	1,4
Canyon Cooke City •m	10E3 10D7	7750 7400	44 ⁰ 44 ¹ 25	98	110°301	1938 1937	1,2,3,4,5		Boxelder Casper Mountain	5G1 6G1	9000 8700	31 16	30N 32N	75₩ 79₩	1950 1954	2,3,4,5	1 5 I
Crevice Mountain *m East Entrance	1005 10E6	8400 7000	22	9S 52N	9E 109₩	1935 1948	3.4	4	Columbine *c Fox Park	6J3 6H12	9300 9200	21	5N I 3N	82W 78W	1936 1936	2,3,4,5	1 4
Lake Camp	10E4	7850	440341	JZN	1.10024	1937	1,2,3,4,5	1	LaBonte	5G2	8450	Ti	27N	74W	1949	2,3,4,5	i
Lupine Creek Thumb Oivide	10E1 10E7	7300 7900	440541		110037	1938 1946	1,2,3,4,5	2 5	North Barrett Creek #2 North French Creek #1		9400 10200	30 27	16N 16N	80W 80W	1936 1938	2,3,4,5	1,4
Sylvan Pass	10E5	7100	12	52N	WOII	1936	1,2,3,4,5	2	Northgate *c Old Battle	6J7 6HI0	8500 9800	7 ′ 29	1 I N I 4 N	79W 85W	1950 1936	2,3,4,5	1.4
CLARK'S FORK Lodgepole	9E1	8200	32	56N	106₩	1940	0015		Park View *c	6J2	9200	24	5N	78₩	1936	2,3,4,5	
WIND RIVER	JL I	8200	32	JON	100#	1940	2,3,4,5	1.4	Ryan Park #2 Webber Spring	6H6	8400 9000	34 27	16N 14N	81W 85W	1936 1936	2,3,4,5	1,4
8ig Warm	9F12	8800	36	42N	109W	1955	2,3,4,5	1		6J5	9500	1	4N	78W	1938	2,3,4,5	
Surroughs Creek Oinwoodie	9F4 9F10	00088	15 9	43N 38N	107W	1948 1948	2,3,4,5	1	CHEYENNE RIVER Upper Spearfish •s	3E1	6500	21	3N	ΙE	1944	2,3,4	4
Dry Creek	9F9	9500	34	4N	105₩	1948	2,3,4,5	1.3	GREEN RIVER & POPO AGII		0300	21	314	10	1344	2,5,4	7
OuNoir Geyser Creek	9F6 9F7	8750 8500	27 12	42N 41N	108W	1940 1948	2.3.4.5 2.3.4.5	ľ	Twenty Lakes		10500	2	IS	5₩	1959	2,3,4	1
Little Warm Sheridan R.S. #2	9F8 9F14	9500 7500	24 3	41N 42N	108M 108M	1948 19 5 5	2.3.4.5		GREEN RIVER & WIND RIV					100000	1050		
T-Cross Ranch Togwotee Pass	9F3 10F9	8000 9600	I 29	43N 44N	107W	1940	2,3,4,5	I 5	Dinwoodie Glaciers	9F17		43°14' 400 RIVER	ODAINA	1090351	1959	2,3,4	1
POPO AGIE RIVER	1019	9000	29	4411	110#	1930	2,3,4	5	GREEN RIVER		COLORI	400 KITEK	ONATHA				
Blue Ridge	8G2	9500	23	3IN	101W	1939	2,3,4,5	1	Big Park	10011	8700	7	27N	117W	1951	2,3,4,5	1
Bruce's Camp Hobbs Park	8G5 9G3	6500 10000	24 22	32N 2S	101M	1955 1948	2,3,4	1	Blind Bull Dutch Joe R.S.	10G2 9G5	8750 8700	6 32	34N 31N	115₩ 104₩	1948 1936	2,3,4,5	1
Mosquito Park R.S.	9G4	9500	23	25	3₩	1940	2.3.4.5	1,3	East Rim Oivide Gros Ventre	10F17 10F19	7950 8750	32 36	37N 40N	W W	1936 1948	2,3,4,5	5 I
Sawmill Glade South Pass	8G1 8G3	8500 9000	3	31N	101W	1939 1939	2,3,4,5	1	Hewinta R.S. ∗u	10J4	9500	33	3N	13E 15E	1930	4	
St. Lawrence R.S. Trout Creek	9F11 9G2	9000 8400	26 5	1N 2S	4₩ 2₩	1940 1948	2,3,4,5	1,3 1,3	Hole-in-the-Rock ∗u Kelly R.S.	10J1 10G12	9150 8200	13 13	26N	118W	1951	2,3,4,5	1
OWL CREEK							_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Kendall R.S. Loomis Park	10F15 10F16	7900 8500	23	38N 37N	111# 110#	1936 1936	2,3,4,5	
Beavers Mill	9F2	8900	6	43N	105M	1948	2,3,4,5	1	Mulligan Park	9G1	8900	17	35N 14N	108W 85W	1936	2,3,4,5	1.4
Owl Creek GREYBULL RIVER	8FI	8700	36	43N	101M	1948	2,3,4,5	1	Old Battle Piney-LaBarge	6H10 10G10	9800 8820	29 19	29N	114₩	1936 1937	2,3,4,5	1.4
Timber Creek #2	9E3	800	25	47N	103₩	1956	2,3,4,5	1	Poison Meadows Snyder Basin R.S. #2	10G6 10G13	8500 8040	29 15	30N 29N	116W	1948 1956	2,3,4,5	
Wood River #2	9F15	8000	28	46N	103W	1956	2,3,4,5	1	Soda Lake	10G14	8300	14	33N	115W	1955	2,3,4,5	1
SHOSHONE RIVER Carter Mountain	9E4	7800	15	50N	103W	1957	1,2,3,4	1	GREEN RIVER & POPO AGII								
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2	Twenty Lakes GREEN RIVER & WIND RIVE		10500	2	IS	5W	1959	2,3,4	1
Sylvan Pass NOWOOO CREEK	10E5	7100	12	52N	110#	1936	1,2,3,4,5	2	Oinwoodie Glaciers	9F17	10500	430141		1090351	1959	2,3,4	1
Cold Springs Camp	7E25	8700	1	50N	88W	1956	2,3,4,5	1				BIA RIVER	ORAINA	GE			
Medicine Lodge Lakes Munkers Pass	7E24 7E8	9500 9700	7	51N 48N	87₩ 85₩	1956 1950	2,3,4,5	1	SNAKE RIVER BASIN (Abov	ve Jack IOFI	son Lak 6850	(e) 3	46N	113W	1919	2,3,4	5
Onion Gulch Tensleep Lake	7E27 7E26	8100 9075	3I 33	48N 50N	85W 86W	1956 1956	2,3,4,5	1	Aster Creek	1088	7700	440171		1100371	1919	2,3,4	5
Tyrell R.S.	7E35	8300	30	49N	86W	1956	2,3,4,5	i	Base Camp Coulter Creek	10F2 10E10	6900 7600	20 44°09†	46N	113M	1 3 47 1919	2,3,4	5 2
SHELL CREEK									Glade Creek Grassy Lake		7200 7265	44°08'	48N	110 ⁰ 44'	1919 1940	2,3,4	5 5
8ald Mountain Beaver-Tongue Oivide	7E21 7E20	9600 9200	33 12	56N 55N	91W	1956 1956	2,3,4,5	1	Huckleberry Divide Lewis Lake Divide	10E14	7300	32	48N	115W	1919	2,3,4	5
Bone-Spring Oivide Granite Creek Camp	7E18 7E22	9200 7800	32 15	55N 53N	89W 89W	1956 1956	2,3,4,5	1	Moran		7900 6800	44 ⁰ 13 ¹ 8,17	45N	110º40' 114₩	1919	2,3,4,5	5 5
Granite Pass	7E I 7	8950	19	54N	88 W	1956	2,3,4,5	i	Moran Bay Snake River Station		6800 6780	14 44 ⁰ 081	45N	116W 110°40'	1919	2,3,4	5 5
Ranger Creek Shell Creek	7E4 7E23	8800 9600	32 12	53N 52N	88W 88W	1935 1956	2,3,4,5	1	Thumb Oivide	10E7	7900	440221		1100351	1951	2,3,4	5
PORCUPINE CREEK									JACKSON LAKE TO PALISAC		0000	20	2011	1.1.0%	1006	0045	
Five Springs Falls Medicine Wheel	7E31 7E30	7500 9000	19 24	56N 56N	92₩ 92₩	1956 1956	2,3,4,5	1	Afton R.S. Blackrock	IOF7	6200 8600	30 4	32N 44N	W	1936 1936	2,3,4,5	4 5
TONGUE RIVER	7200	5000		00	52		2101.10		Blind Bull Bryan Flat	10G2 10F14	8750 6250	6	34N 38N	115₩ 115₩	1948 1936	2,3,4,5	
Beaver-Tongue Oivide		9200 7700	12	55N	91W 86W	1956 1955	2,3,4,5	1	CCC Camp Cottonwood Lake		7500 7500	9 25	29N 31N	118W	1936 1936	2,3,4,5	1.4
8ig Goose #2 8one-Spring Oivide	7E32 7E18	9200	32	53N 55N	89W	1956	2,3,4,5	i	Oeadman Ranch	10G1	6534	28	35N	116₩	1936	1,2,3,4,5	l c
Burgess R.S. #2 Oome Lake #2	7E33 7E34	7900 8800	36 	56N 53N	89W 87W	1955 1950	2,3,4,5		East Rim Oivide \\ Four Mile Meadows	10F17 10F6	7950 7770	32 35	37N 45N	111W 112W	1936 1936	2,3,4,5	5
Gloom Creek	7E I 4	9300	32	55N	87₩	1956	2,3,4,5	į	Greys Boundary Gros Ventre		5800 8750	33 36	37N 40N	111W	1936 1948	1,2,3,4,5	5 1,4
Granite Pass North Tongue	7E17 7E15	8950 8800	19 17	54N 55N	89W	1956 1956	2,3,4,5		Grover Park Divide	10G3	7500	27	33N	118W	1936	1,2,3,4,5	5 1,4
Sibley Lake Sucker Creek	7E11	8000 9000	10	55N 55N	88W 87W	1956 1956	2,3,4,5		Poison Meadows		8500 8500	14 29	37N 30N	111W	1936 1949	2.3.4.5	i
Steamboat Point Wood Rock G.S.	7E10 7E13	7500 8500	32 3	56N 54N	87₩ 88₩	1956 1956	2,3,4,5	1	Teton Pass #2 Togwotee Pass	10F13 10F9	8500 9600	24 29	4 I N 44 N	118₩ 110₩	1936 1936	2,3,4,5	5 1.4
POWOER RIVER	1213	8500	3	5411	0011	1300	2,0,4,0		Turpin Meadows Yellowjacket	10F5	6930 7675	14	45N 42N	112₩ 112₩	1936 1936	2,3,4	5
Muddy Creek G.S.	6E2	7800	2	48N	84W	1956	2,3,4,5	}	Salt River Summit	10G8	7900	32	29N	118#	1948	2,3,4,5	1,4
Munkers Pass Onion Gulch	7E8 7E27	9700 8100	31	48N 48N	85W 85W	1950 1956	2,3,4,5			10F12 10F20	7000 7600	4	40N 40N	117₩ 117₩	19 5 4 19 5 9	Semi. Mo. Semi. Mo.	
Soldier Park Sour Oough	7E5 7E6	8700 8500	36 17	51N 49N	85W 84W	1950 1936	2,3,4,5		BEAR RIVER								
SWEETWATER		3030		,,,,,,		.000	-,-,-,-		Big Park CCC Camp	10G11 10G7	8700 7500	7	27N 29N	117W	1951 1936	2,3,4,5	1
Grannier Meadows #1	8G4	9000	19	30N	100₩	1937	2,3,4,5	1	Girl Hollow •u	11817	8400	5	7N	5E	1951	3,4,5	
Larsen Creek South Pass	966 863	9000	12 13	30N	101M 103M	1949 1939	2,3,4,5 2,3,4,5	1	Goodman Ranch •u Hayden Fork •u	10J6 10J7	7900 9300	19	1S	10E 9E	1937 1951	4 4,5	
LARAMIE RIVER									Head of Sear River *u Kelly R.S.	10J5 10G12	8600 8200	15 13	2N 26N	10E 118₩	1935 1951	4 2,3,4,5	1
Brooklyn Lake #1 Brooklyn Lake #2	6H13	10200	11	16N 16N	79W 79W	1936 1956	2,3,4,5	1	Monte Cristo, R.S. •u	11812	8960	3	8N	4E 116₩	1930	3,4,5	1
Oeadman Hill *c Fox Park	5J6	10200	26	ION	75W	1937	3,4,5		Poison Meadows Salt River Summit	10G6 10G8	8500 7900	29 32	30N 29N	118#	1948	2,3,4,5	1.4
Hairpin Turn #2	6H12	9200 9500	21	13N	78₩ 79₩	1936 1936	2,3,4,5	4 1,4	a. Numerals 1,2,3,4 and	5 refer	to Jan	nuary I F	pruare	I. March	I. April	and May	1.
Libby Lodge #2 McIntyre ∗c	6H3 5J15	8700 9100	29 35	16N 10N	78W 76W	1936	2,3,4,5	1,4	b. Numerals refer to Ag	gency t	hat sec		snow s	urvey, as	follows	:	
Pole Mountain #2 Roach *c	5H1 6J12	8700 9800	35 5	15N 10N	72₩ 77₩	1936 1940	2,3,4,5	1,4	 Soil Conservat U. S. National 	Park	Service		c. Cold	orado snov	w courses		
						2.5	,.,.		3. U. S. Indian S 4. U. S. Forest S					tana snow th Oakota			

umerals refer to Agency that secures the snow survey, as follows:

1. Soil Conservation Service.

2. U. S. National Park Service.

3. U. S. Indian Service.

4. U. S. Forest Service.

5. U. S. Bureau of Reclamation.

1. Soil Conservation Service.

5. U. S. Bureau of Reclamation.

1. Soil Conservation Service.

2. U. Utah snow courses.

3. South Oakota snow courses.

3. U. Utah snow courses.

3. U. Utah snow courses.

			SNOW COVER MEASUREMENTS 1960 PAST RECORD								
Drainage Basin	umber		7		View 1						
and	or		Date	Snow	Water		Conte	ent (In.)	Prior		
Snow Course	State	Elev.	of Survey		Content (In.)	f	4050	1943-57	Yrs. of		
			i our vey	(1110)	(1111)	11959	1958	Average	necoru		
MADISON RIVER - YEL	LOWSTON	E PARK									
Norris Basin ÷	10E2	7500	2/1	20	3.8	5.4	5.3	7.3**e	10		
21 Mile ^m	11E6	7150	1/30	27	5.4	8.8	8.6	13.0	15		
West Yellowstone ^m	11E7	6700	1/29	18	3.3	5.0	4.2	8.8	15		
UPPER YELLOWSTONE -	- YELLOW	STONE P	ARK								
Canyon	10E3	7750	2/1	23	3.9	9.8	7.7	9.8**	15		
Cooke City ^m	10D7	7400	2/1	14	2.8	5.0	4.6	6.2	11		
East Entrance ÷	10E6	7000	1/30	18	3.5	7.3	7.3	8.7	15		
Lake Camp	10E4	7850	2/1	19	2.9	5.7	4.5	6.6**	14 15		
Lupine Creek Norris Basin ÷	10E1 10E2	7300 7500	2/1 2/1	18 20	2.8 3.8	6.6 5.4	4.4 5.3	7.3** 7.3**e	10		
Sylvan Pass ÷	10E2	7100	1/30	23	4.1	9.6	8.1	10.2**	15		
Thumb Divide ÷	10E7	7900	1/30	33	7.0	12.0	11.7	16.5e	9		
THOMAS DIVIGO	.021	1,500	1750	55	7.0	12-00		10.50			
LOWER YELLOWSTONE -	- CLARK!	S FORK									
Lodgepole	9E1	8200	2/1	19	3.3	6.8	5.4	8.8**	4		
LOWER YELLOWSTONE -	- WIND R	IVER									
Big Warm	9F12	8800	1/26	18	2.9	4.7	3.7	5.2**	5		
Burroughs Creek	9F4	8800	1/28	20	3.8	10.4	6.1	11.0**	11		
Dinwoodie	9F10	10000	1/29	28	7.0	6.3	6.0	8.4**	11		
Dinwoodie Glaciers	9F17	10000	1/29	29	7.0E	6.3			1		
Dry Creek	9F9	9500	1/29	14	2.5	3.9	2.8	4.5**	11		
DuÑoir	9F6	8750	1/26	13	2.2	4.3	2.7	6.1*	15		
Geyser Creek	9F7	8500	1/27	14	2.0	4.2	2.3	5.3**	11		
Little Warm	9F8	9500	1/27	38	7.9	10.1	7.5	11.8**	10		
Sheridan R.S. #2	9F14	7500	1/29	13	2.0	3.3	2.9	4.2**	5		
T-Cross Ranch	9F3	8000	1/28	11	2.3	4.4	3.5	5.5	15		
Togwotee Pass ÷	10F9	9600	1/29	54	14.4	20.9	15.1	20.6	15		
Twenty Lakes ÷	967	10000	1/29	19	3.0E	2.0			1		

Averages are for the 15 year base period of 1943-57.

Average is for 15 years of data within and adjacent to the 1943-57 period.

Average of all past data.

^{**}

[÷] Adjacent drainage

Montana snow courses. m

Aerial stadia marker, water content estimated. E

Partial estimate, during 1943=57 base period.

4 13 14,41

					SNOW			REMENTS	
Drainage Basin	Number			1960			RECORL		
and	or	- .	Date	Snow	Water	Water	Conte	nt(In.)	Prior
Snow Course	State	Elev.	of Survey		Content (In.)	1959	1958	1943-57	
			Survey	(In.)	(10.)	1909	1990	Average	necora
LOWER YELLOWSTONE -	POPO AGI	E RIVER							
Blue Ridge	8 G 2	9500	2/4	22	5.0	4.5	5.5	8.5*	18
Bruce's Camp	8G5	6500	2/5	15	2.4	2.1	1.6	1.3**	4
Hobbs Park	9G3	10000	2/2	38	7.6	6.9	7.0	12.0**	11
Mosquito Park R.S.	9G4	9500	2/2	23	4.1	2.8	3.3	5.5*	16
Sawmill Glade	8 G 1	8500	2/4	23	4.4	3.2	4.8	5.5*	18
South Pass ÷	8G3	9000	2/4	26	5.2	5.6	7.1	10.3	18
St. Lawrence R.S.	9F11	9000	2/1	17	2.4	2.0	2.0	4.6*	16
Trout Creek	9G2	8400	2/2	21	3.1	2.9	3.2	3.4**	11
Twenty Lakes ÷	9G7	10000	1/29	19	3.0E	2.0			1
LOWER YELLOWSTONE -	OWL CREE	<u>K</u>							
Kirwin ÷	9F19	10000	1/30	44	11.0E				
Owl Creek	8F1	8700	1/25	21	4.9	2.9	2.4	3.7**	11
LOWER YELLOWSTONE -	GREYBULL	RIVER							
Kirwin ÷	9F19	10000.	1/30	44	11.0E				
LOWER YELLOWSTONE -	SHOSHONE	RIVER							
Carter Mountain ÷	9E4	7800	1/26	16	3.7	1.4	3.2		3
East Entrance ÷	10E6	7000	1/30	18	3.5	7.3	7.3	8.7	15
Ishawooa Cone	9E5	9200	1/30	87					
Sylvan Pass ÷	10E5	7100	1/30	23	4.1	9.6	8.1	10.2**	16
Togwotee Pass ÷	10F9	9600	1/29	54	14.4	20.9	15.1	20.6	24
Younts Peak	9F18	8500	1/30	50	13.5E				
LOWER YELLOWSTONE -	NOWOOD C	REEK							
Bear Trap ÷	7F1	8000	1/27	16	3.8				
Canyon Creek ÷	7F2	7400	1/28	24	5.5				
Cold Springs Camp	7E25	8700	2/1	16	3.7	6.5	4.0	5.4**	4
Medicine Lodge Lakes		9500	2/1	27	6.8	9.2	6.6	8.1**	4
Munkres Pass ÷	7E8	9700	2/1	24	5.3	8.5	5.4	6.7**	5
Onion_Gulch ÷	7E27	8100	1/27	21	5.0	7.6	5.0	6.8**	4
West Tensleep Lake	7E26	9075	Aerial	N. R.		9.1	6.7		

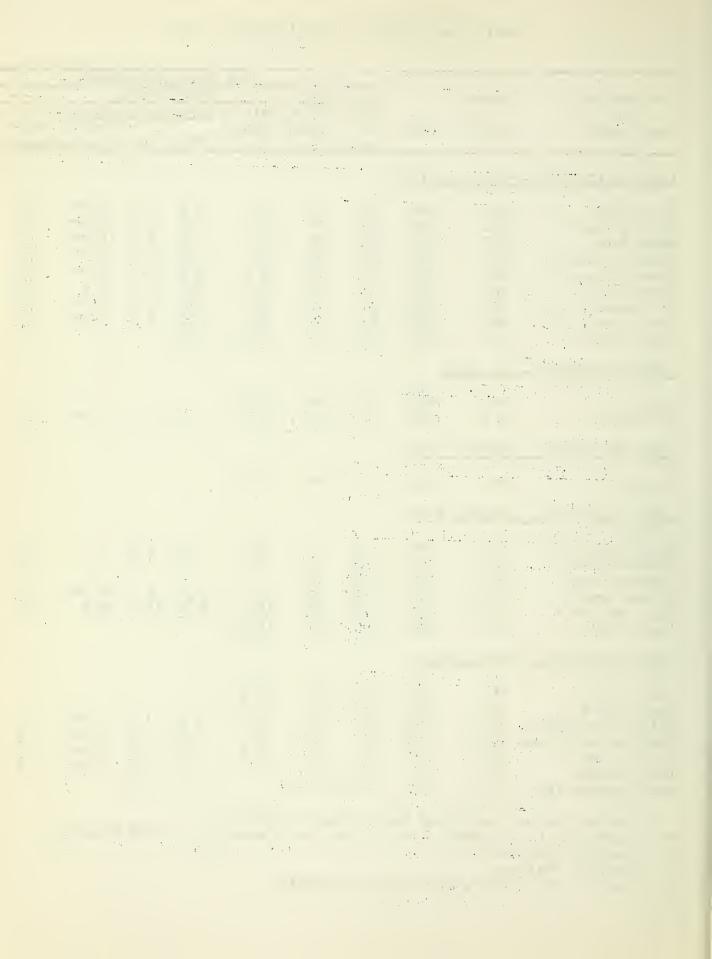
Averages are for the 15 year base period of 1943-57.

Average is for 15 years of data within and adjacent to the 1943-57 period.

Average of all past data.

Adjacent drainage.

Aerial stadia marker; water content estimated.



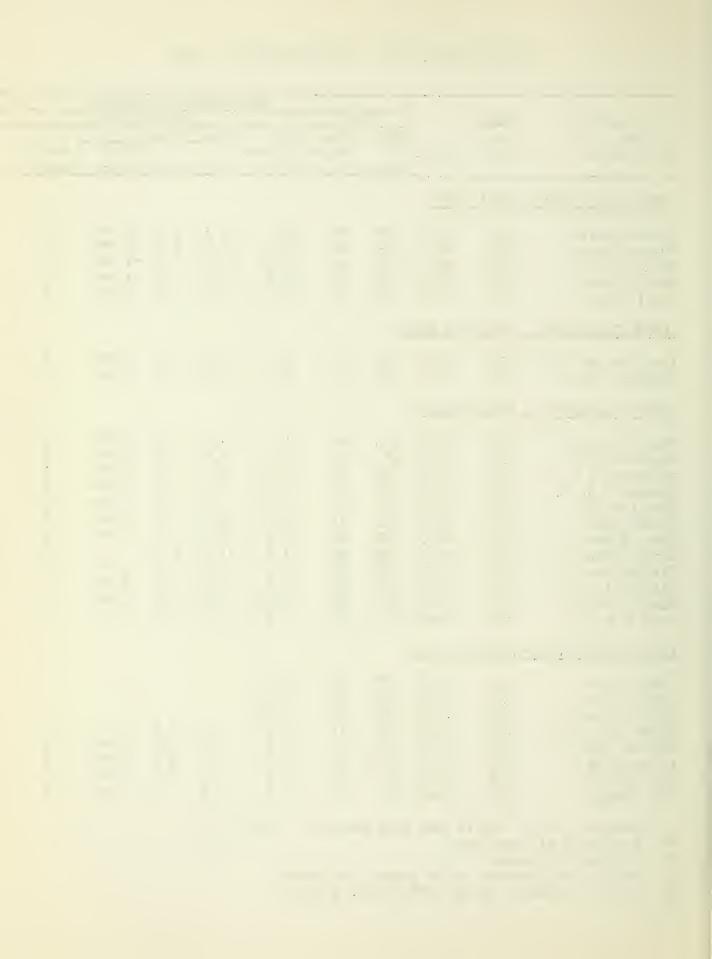
			4						
2					SNO	W COVE		SUREMENTS	
Drainage Basin	Number		19		161 1	Shu L		RECORD	10:
and Snow Course	or State	Elev.	Date	Snow	Water Content		Conte	nt (In.) 1943-57	Prior Yrs.of
Onow Course	Jiale	FIGA.	Survey			1959	1958	Average	Record
LOWER YELLOWSTONE -	- SHELL C	REEK							
Bald Mountain ÷	7E21	9600	1/27	49	13.4	17.3	8.4	13.0**	4
Beaver Tongue ÷	7E20	9200	1/27	46	11.7	17.3	7.8	12.4**	4
Bone Spring ÷	7E18	9200	1/30	35	8.4E	13.4	7.7	11.2**	4
Granite Pass ÷	7E17	8950	1/26	40	10.4	12.9	7.4	11.0**	4
Shell Creek	7E23	9600	1/30	32	7.7E	11.3	7.5	10.3**	4
LOWER YELLOWSTONE -	PORCUP I	NE CRE	<u>EK</u>						
Five Springs Falls	7E31	7500	1/29	14	3.2	8.5	2.4	4.5**	4
Medicine Wheel	7E30	9000	1/28	37	9.8	16.3	6.8	10.6**	4
LOWER YELLOWSTONE -	TONGUE	RIVER							
Beaver Tongue ÷	7E20	9200	1/27	46	11.7	17.3	7.8	12.4**	4
Big Goose #2	7E32	7700	2/1	21	4.9	5.9	3.6	5.2**	4
Bone Spring ÷	7E18	9200	1/30	35	8.4E	13.4	7.7	11.2**	4
Burgess R.S. #2	7E33	7900	1/29	22	5.6	7.0	3.4	5.1**	4
Dome Lake #2 Gloom Creek	7E34 7E14	8800 9300	2/2 2/2	21 31	4.9E 8.0E	7.5 10.3	4.8 6.4	5.9** 8.1**	8 4
Granite Pass ÷	7E17	8950	1/26	40	10.4	12.9	7.4	11.0**	4
North Tongue	7E15	8800	1/28	30	7.5	11.0	N.R.		2
Sibley Lake	7E11	8000	1/29	27	6.8	8.6	5.5	6.7**	4
Steamboat Point	7E10	7500	1/29	20	5.4	6.3	3.4	4.5**	4
Sucker Creek	7E12	9000	2/2	26	6.5E	10.2	6.3	7.7**	4
Wood Rock G.S.	7E13	8500	1/29	29	7.6	8.5	4.9	7.0**	4
LOWER YELLOWSTONE -	POWDER	RIVER							
Bear Trap ÷	7F1	8000	1/27	16	3.8				
Canyon Creek ÷	7 F2	7400	1/28	24	5.5				
Cloud's Peak		10000	2/2	20	5.0E				
Muddy Creek G.S. ÷	7E28	7500	1/29	11	2.0	3.9	2.3	3.1**	4
Munkres Pass ÷	7E8	9700	2/1	24	5.3	8.5	5.4	6.7**	5
Onion Gulch ÷ Soldier Park	7E27 7E5	8 10 0 8 70 0	1/27	21 16	5.0 3.3	7.6 4.6	5.0 3.0	6.8** 3.2**	4 8
Sour Dough	7E6	8500	2/1 2/2	14	2.4	5.5	3.8	5.2**	4
oodi boagii	120	0000	2/2	17	207	200	5.0	2.2	٦.

Averages are for the 15 year base period of 1943-57.

Average of all past data.
Adjacent drainage. **

[÷]

Aerial stadia marker, water content estimated. Partial estimate, during 1943-57 base period. Ε



							1051151		
D ' D '	N1 l			Si	NOM COAE		UKLIVIEN ST_REO		
Drainage Basin and	Number or		Date	Snow	Water			nt (In.)	Prior
Snow Course	State	Elev.	of		Content			1943-57	
			Survey		(In.)	1959	1958_	Average	Record
NORTH PLATTE - SWEET	WATER								
Dutch Joe	9G5	8700	1/26	13	2.5	5.3	6.6	7.0**	4
Grannier Meadows #1	8G4	9000	2/4	29	6.8	5.1	7.0	9.9*	18
South Pass ÷	8G3	9000	2/4	26 13	5.2 2.3	5.6 6.1	7.1 8.3	10.3	18 3
Larsen Creek	9G6	9000	1/25	13	2.3	0.1	0.5		5
NORTH PLATTE - LARAN	HE RIVER	<u> </u>							
Albany ÷	6H11	9400	1/30	12	2.2E	9.6	9.1	9.6**	11
Brooklyn Lake #1 ÷	6H1	10200	1/29	35	8.5	13.8	13.0	14.6 15.3**	22 4
Brooklyn Lake #2 ÷ Cameron Pass C ÷	6H13 5J1	10200 10300	1/29 2/1	36 38	8.4 9.0	13.1 14.9	12.4 13.2	13.6	21
Chambers Lake ÷	5J2	9000	1/31	14	2.8	8.1	5.8	5.6	21
Deadman Hill ^C ÷	5J6	10300	1/30	22	4.5	11.1	9.2	8.8	16
Evans	6H15	9000			N.R.	4.5		4.4	00
Fox Park ÷	6H12	9200	1/28	14	2.6	4.7 7.2	4.1 6.1	4.1 7.7	23 22
Hairpin Turn #2	6H2 5G2	9500 8450	1/29 1/27	13 8	2.3 1.4	2.6	3.0	4.0**	11
LaBonte ÷ Libby Lodge #2	6H3	8700	1/29	13	2.0	6.7	6.2	7.0	22
Pole Mountain #2 ÷	5H1	8700	2/1-	8	0.8	2.8	1.6	3.2	23
Roachc	6J12	9800	2/1	29	7.2	12.0	10.1	11.2	18
Rock Creek ÷	6H14	9800	1/30	42 21	10.0E	N.R. 14.2		12.0	9
Lost Lake ^C	5J23	9300	1/31	21	5.6	14.2		12.0	
NORTH PLATTE - ABOVE	SEMINOE	RESERVO	IR						
Albany ÷	6H11	9400	1/30	12	2.2E	9.6	9.1	9.6**	11
Bottle Creek	6H8	8200	2/2	21	4.3	6.8	7.7	9.0	22 9
Boxelder ÷	5G1	9000	2/2 2/1	16 38	3.4 9.0	3.5 14.9	3.4 13.2	3.1** 13.6	21
Cameron Pass ^C ÷ Casper Mountain ÷	5J1 6G1	10300 8700	1/28	30 27	5.6	5.0	7.0	7.2**	4
Columbine ^C ÷	6J3	9300	1/27	44	9.8	14.0	14.9	15.3	24
Elk Mountain	6H15	10000			N.R.	N.R.			
Fox Park ÷	6H12	9200	1/28	14	2.6	4.7	4.1	4.1	23
LaBonte ÷	5G2	8450 9400	1/27 1/30	8 29 -	1.4 6.5E	2.6 14.7	3.0 14.1	4.0**	11 22
North Barrett Cr. ÷ North French Cr. ÷	6H5 6H4	10200	1/30	48	11.5E	17.1	N.R.	17.2	22
Northgate ^C	6J7	8500	1/28	15	2.7	4.1	2.6	4.0**	10
Old Battle ÷	6H10	9800	2/2	57	14.4	12.8	21.1	20.0	22
Rock Creek ÷	6H14	9800	1/30	42	10.0E	N.R.	2 7	5.0	22
Park View ^C	6J2 6H6	9200 8400	1/26 1/30	22 12	4.4 2.2E	4.7 6.9	3.7 7.1	5.9 6.5	22
Ryan Park Webber Spring	6H9	9000	2/2	29	6.1	7.6	9.9	11.7	22
Willow Creek PassC		9500	1/26	28	6.3	6.1	6.2	7.8	20

Averages are for the 15 year base period of 1943-57.

Average is for 15 years of data within and adjacent to the 1943-57 period.

Average of all past data.

Adjacent drainage.

Aerial stadia marker, water content estimated. Ε

Colorado snow courses.

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Duniana Dania	Al			1960	SNO		R MEAS PAST F	BUREMENTS	
Drainage Basin	Number or		Date	Snow	Water			ent (In.)	Prior
Snow Course	State	Elev.			Content		001100	1943-57	Yrs. of
			Survey			1959	1958	Average	Record
NORTH PLATTE - CROW	CREEK								
Pole Mountain #2 ÷	5H1	8700	2/1	8	0.8	2.8	1.6	3.2	22
MISSOURI - CHEYENNE	RIVER								
Upper Spearfish ^S	3E1	6500	2/2	23	5.2	4.9	3.4	4.4*	16
UPPER COLORADO - GR	EEN RIVE	<u>:R</u>							
Big Park ÷ Blind Bull Summit ÷ Dutch Joe R.S. East Rim Divide ÷ Gros Ventre Kendall R.S. Loomis Park ÷ Mulligan Park Old Battle ÷ Piney LaBarge Poison Meadows Snyder Basin #2 Soda Lake Triple Peaks	10G11 10G2 9G5 10F17 10F19 10F15 10F16 9F1 6H10 10G10 10G6 10G13 10G14 10G15	8700 8750 8750 7950 8750 7900 8500 8900 9800 8820 8500 8040 8300 8500	1/29 1/26 1/28 1/29 1/28 1/28 1/26 2/2 1/26 1/29 1/26 1/27	32 36 13 15 21 15 27 13 57 24 46 20 24 34	7.5E 8.5E 2.5 3.5 5.0E 3.0 5.9 2.8 14.4 6.3 11.5E 5.0 5.5 8.1	10.4 17.7 5.3 6.9 N.R. 6.1 10.2 5.9 12.8 11.4 9.3 11.4	6.6 6.5 6.8 5.8 N.R. 6.4 21.1 N.R. N.R.	7.0** 6.9** 7.0** 7.6** 20.0*	1 1 4 5 3 4 22 1 2 3
SNAKE RIVER - ABOVE	JACKSON	LAKE							
Arizona Astor Creek Base Camp ÷ Coulter Creek Glade Creek Grassy Lake ÷ Huckleberry Divide Lewis Lake Divide Moran Headquarters Moran Bay Snake River Station Thumb Divide ÷	10F1 10E8 10F2 10E10 10E13 10E15 10E14 10E9 10F4 10F3 10E12 10E7	6850 7700 6900 7600 7200 7265 7300 7900 6800 6800 6780 7900	1/29 1/30 1/29 1/31 1/30 1/30 1/29 1/30 1/29 1/30 1/30	32 45 30 36 33 52 35 56 25 38 33 33	6.2 9.7 6.1 8.1 6.3 11.7 6.3 13.4 5.2 7.5 6.3 7.0	9.2 15.5 11.5 12.3 11.0 20.2 10.4 23.4 7.6 12.8 11.0	10.1 16.4 9.7 13.0 14.1 21.1 11.6 23.6 8.7 14.1 12.3 11.7	12.8e 22.5e 13.4e 15.4e 15.5e 22.9 13.6e 30.4e 8.8 14.4 14.2e 16.5e	41 41 13 41 41 20 41 41 41 41 41 9

Averages are for the 15 year base period of 1943-57.

Average is for 15 years of data within and adjacent to the 1943-57 period.

Average of all past data.

^{**} South Dakota snow course.

[÷] Adjacent drainage.

Aerial stadia marker, water content estimated. Ε

Partial estimate, during the 1943-57 base period.



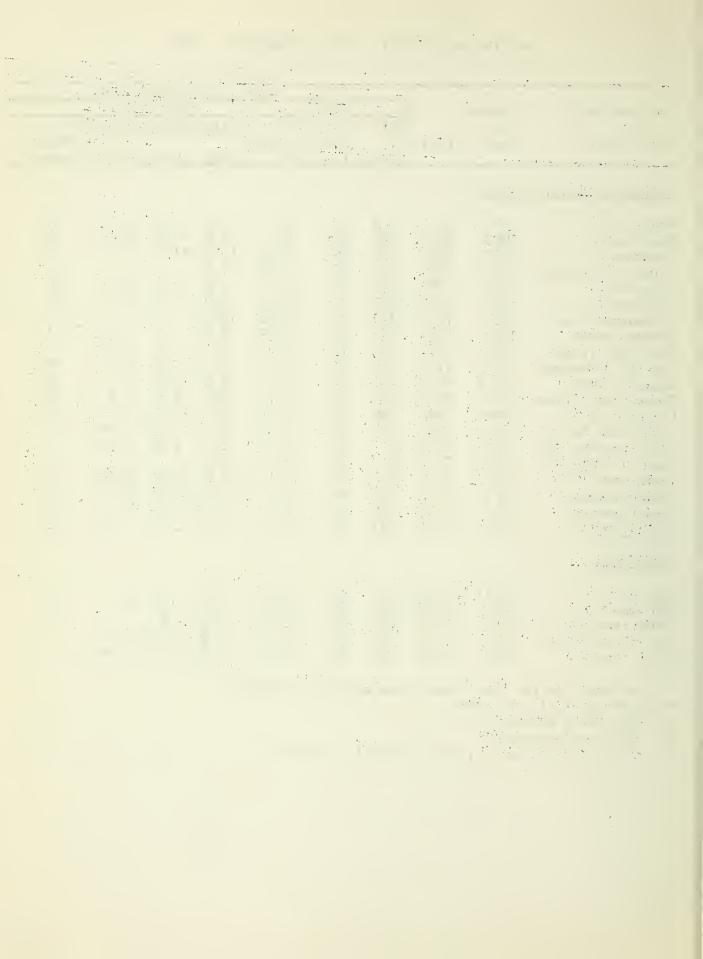
			1		SNOW	COVER	MEASI	REMENTS	
Drainage Basin	Number			1960	OUTOW		PAST F		
and	or		Date	Snow	Water			ent (In.)	Prior
Snow Course	State	Elev.			Content		COTTCC	1943-57	Yrs.of
3 334. 33	01010	_100.	Survey		(In.)	1959	1958	Average	Record
	-					<u> </u>			
JACKSON LAKE TO PAL	ISADES								
Afton R.S	10G4	6200	1/28	12	2.0	2.2	4.2	3.8	24
Base Camp ÷	10F2	6900	1/29	30	6.1	11.5	9.7	13.4e	13
Blackrock	10F7	8600	1/29	39	9.5	15.2	11.8	15.7	24
Blind Bull Summit ÷	10G2	6250	1/29	36	8.5E	17.7			1
Bryan Flat	10F14	6250	1/29	14	4.6	6.0	7.7	7.0	24
CCC Camp ÷	10G7	7500	1/27	24	5.0	5.9	7.9	8.3	24
Cottonwood Lake	10G5	7500	1/29	33	8.0E	10.0			1
Deadman Ranch	10G1	6534	1/29	21	4.5E	6.2			1
East Rim Divide ÷	10F17	7950	1/28	15	3.5	6.9	6.6	6.9**	5
Four Mile Meadows	10F6	7770	1/29	24	4.6	9.1	7.5	9.8	24
Greys Boundary	10E18	5800	1/27	24	5.0	6.2	10.2	7.9	24
Grover Park Divide	10G3	7500	1/28	25	5.1	5.5	8.4	7.9	24
Loomis Park ÷	10F16	8500	1/28	27	5.9	10.2	N.R.		3
Salt River Summit ÷		7900	1/27	26	5.0	7.4	9.9	10.6**	11
Snow King Mtn. #2	10F12	7600	2/1	21	4.2	6.1	6.8	6.5**	5
Snow King Mtn. #3	10F20	7600	2/1	26	6.0	9.6			1
Teton Pass #2 ÷	10F13	8500	1/29	48	12.1	21.6	22.4	24.0**	15
Togwotee Pass ÷	10F9	9600	1/29	54	14.4	20.9	15.1	20.6	24
Turpin Meadows	10F5	6930	1/29	17	2.8	7.3	6.8	8.1	24
Yellowjacket	10F10	7675	1/31	15	2.1	5.0	3.0	4.6**	15
BEAR RIVER									
Dia Doule :	10G11	8700	1 /20	22	7.5E	10.4			1
Big Park ÷	10G7	7500	1/29 1/27	32			7.9	8.3	1 24
CCC Camp ÷			1/26	24	5.0	6.0		0.3	
Piney LaBarge ÷	10G10	8820		24	6.3	11.4	N.R. 9.9	10.7**	1 11
Salt River Summit ÷		7900	1/27	26 42	5.0 9.4	7.4	17.7	10.7** 17.1**e	7
Trial Lake ^u ÷	10J8	9800	1/28	42	7.4	10.9	1606	17.17*e	,

Averages are for the 15 year base period of 1943-57. Average of all past data.

Utah snow course.

Adjacent drainage.

Ε Aerial stadia marker, water content estimated.



WYOMING STREAM-FLOW FORECASTS FEBRUARY 1, 1960

BASIN AND TRIBUTARY	C1	April	- September	r 30
DASIN AND INIDUIANT	Forecast	% 15-Year	Measure	ds of Acre Feet ed Runoff
	Runoff	Average	, 1957	15-Yr. Avg. 1943-57**
NORTH POPO AGIE Milford (near)	56	65	123	86*
LITTLE POPO AGIE Lander (Near)	32	66	62	49*
WIND RIVER Dubois (at)	85	77	114	110*
SHOSHONE RIVER Buffalo Bill Dam (below) (1)	560	66	1063	851
LARAMIE RIVER Jelm (at) (2)	65	58	188	113
ENCAMPMENT RIVER Encampment (near)	90	58	214	156
NCRTH PLATTE RIVER North Gate (at) Saratoga (at)	95 295	37 45	537 1168	255 661
MEDICINE BOW RIVER Hanna (near)	60	60	146	99
SWEETWATER RIVER Alcova (at)	55	65	94	84
GREEN RIVER Warren Bridge (at) Fontenelle (near)	244 700	70 70	394 1177	348 995
NORTH PINEY CREEK Mason (at)	30	74	53	41
NEW FORK RIVER Boulder (near)	182	70	267	260

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WYCMING STREAM-FLOW FORECASTS FEBRUARY 1, 1960

		· — · · · · · · · · · · · · · · · · · ·		
BASIN AND TRIBUTARY	Sassanal		- September	er 30 s of Acre Feet
DAOTH AND THEOTAIN	Forecast			d Runoff
	Runoff	Average	1957	15-Yr. Avg. 1943-57**
SNAKE RIVER Moran (at) (3)	590	64	936	928
PACIFIC CREEK Moran (near)	140	75	188	185*
BUFFALO FORK Moran (near)	287	85	402	337*
GROS VENTRE Kelly (at)	210	72	301	291*
HOBACK Jackson (near)	315	71	441	442*
BEAR RIVER Utah-Wyo. State Line (near) Randolph (near) Harer (at)	87 35 130	71 30 43	158 142 357	123 115** 299
SMITH'S FORK Border (near)	87	73	148	119

All stream data taken from observed flow records with the following exceptions:

⁽¹⁾ Observed flow corrected for Buffalo Bill storage and Heart mountain diversion.

⁽²⁾ Observed flow corrected for Colorado diversion above station.

⁽³⁾ Observed flow corrected for Jackson Lake Storage.

^{*} Less than 15.

^{**} Estimated 1943-57 average.

BASIN		USABLE	USA	ABLE STOR	AGE - 10	00 Acre Feet
and/or STREAM	RESERVOIR	CAPACITY 1000's AF	1960	1959	1958	15-Yr. Avg. 1943-57
 OTTILAW		1000 5 71	1700	1727	1720	1745-71
Snake River Snake River	Jackson Palisades	847.0 1,200.0	483.7 72 8. 7	470.6 674.5	613.1 568.3	472.9
North Platte	Seminoe Pathfinder Alcova** Guernsey Southerland Kingsley Minatare Glendo	981.8 1,011.0 190.5 39.8 185.0 1,995.0 60.8	334.9 166.1 27.0 10.8 N.R. 1 24.5 327.6	818.1 67.3 -72.4# 32.7 58.6 ,403.2 33.2 33.2	613.5 654.9 28.3 28.0 73.2 925.4 33.8	443.5 472.5 119.2 35.2
Kansas Basin Kansas Basin Kansas Basin Kansas Basin Kansas Basin Kansas Basin	Bonny Swanson Lake Enders Harry Strunk Harlan County Cedar Bluff	39.9 116.1 36.0 33.9 252.9 176.8	N.R. N.R. N.R. N.R. N.R.	37.7 114.2 33.6 33.4 316.8 174.4	39.3 121.6 35.5 33.0 256.9 180.6	
Laramie River	Wheatland	95.0	23.8	27.9	N.R.	19.3e
Belle Fourche Belle Fourche	Belle Fourche Keyhole	185.2 190.3	27.6 0.0	32.0 0.0	59.6 1.2	10.3*
Shoshone River	Buffalo Bill***	439.8	141.4	0.0	189.4	244.6
Wind River Wind River Wind River	Boysen Pilot Butte Bull Lake	560.0 31.6 152.0	159.8 10.5 39.5	78.3 6.3 56.3	322.4 14.4 75.1	474.8* 11.2 70.7
Cheyenne River Cheyenne River	Angostura Deerfield	92.0 15.1	17.5 1.1	46.4 8.6	56.8 10.9	
Grand River	Shadehill	84.0	69.7	71.4	79.4	
Green River	Big Sandy	38.3	3.6	3.7	33.4	

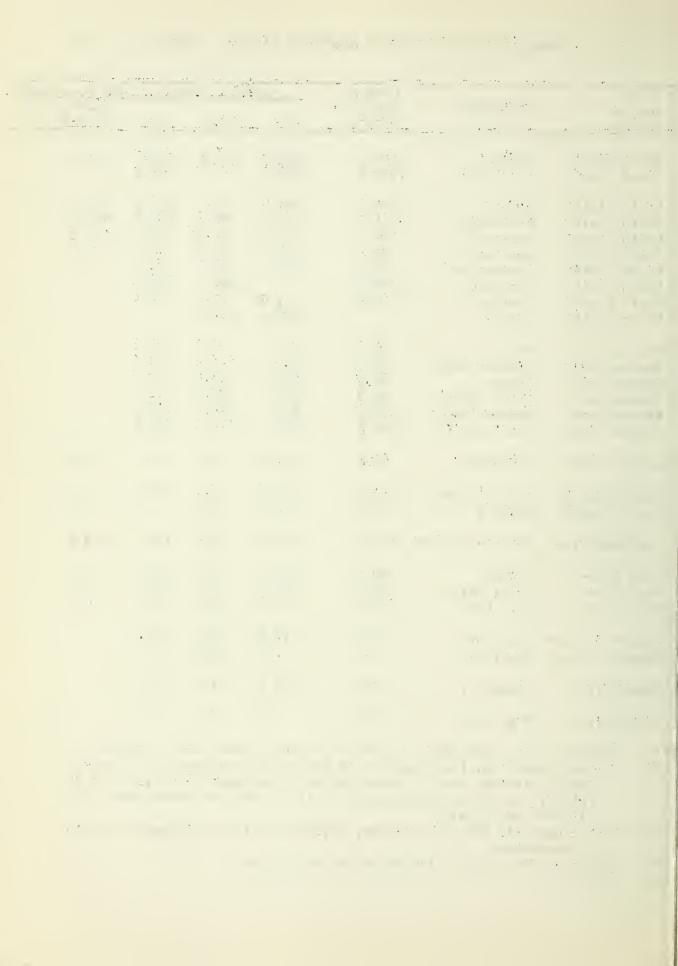
^{*} Average is for less than 15 years of record in the 1943-57 period.

e Estimated.

^{**} Alcova, downstream from Seminoe and Pathfinder includes 160,170 acre feet of storage that is unavailable to the Kendrick Project. In the future, storage in this reservoir will be held at usable capacity (190,500 acre feet).

^{***} Usable capacity 439,800, however, 59,500 acre feet are inactive except in emergency.

[#] Alcova is drawn below irrigation active storage.



SNOW SURVEYS & WATER SUPPLY FORECASTS FOR S & E SOIL CONSERVATION DISTRICT CARBON COUNTY, WYOMING

SOIL MOISTURE

SOIL MOISTURE									
SOIL MOISTURE STACK			DATE	PERCENTAGE OF	YEARS				
NO.	NAME	ELEVATION	OF SURVEY	CURRENT	LAST YEAR NORMAL	OF RECORD			
				·					

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FOR S & E SOIL CONSERVATION DISTRICT CARBON COUNTY, WYOMING 287 RAWLINS HADSELL FT. STEELE KNOBS COYOTE SPRINGS WYOMING WALCOTT ELK MOUNTAIN OVERLAND SARATOGA FORECAST ROCK CREEK POINT CONTINENTAL S. C. D. NORTH FRENCH CREEK #1 RYAN PARK O NORTH BARRETT CREEK #2 OFRENCH ALBANY BOTTLE CREEK OLD KEYSTONE WEBBER SPRING FOXPARK FOX PARK **EVANS** WYOMING COLORADO ORINGS CANYON ORECAST POINT ONORTHGATE ROACH LEGEND WALDEN SNOW COURSE 0 SOIL MOISTURE STACK STREAM GAGING STATION HEBRON DRAINAGE S.C.D. BOUNDARY CAMERON PASS COALMONT WATERSHED BOUNDARY U. S. HIGHWAY FOREST ROAD

SNOW SURVEYS & WATER SUPPLY FORECASTS

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SNOW SURVEYS & WATER SUPPLY FORECASTS FOR S & F SOU CONSERVATION DISTRICT

S & E SOIL CONSERVATION DISTRICT CARBON COUNTY, WYOMING

February 1, 1960

TO: The Cooperator, S & E SWCD

FROM: The Board of Supervisors, S & E SWCD

SUBJECT: 1960 Preliminary Water Supply Outlook

The depth of the snow pack on the North Platte watershed above Saratoga is seriously below normal, according to a report received from Lauriston McPherran, Work Unit Conservationist of the Soil Conservation Service. Snow surveyors have found a deficit of 40 per cent below normal on the wind protected snow courses throughout the basin. In addition to this, heavy winter winds on the unprotected parks and ridges, have reduced still further the anticipated snow melt runoff.

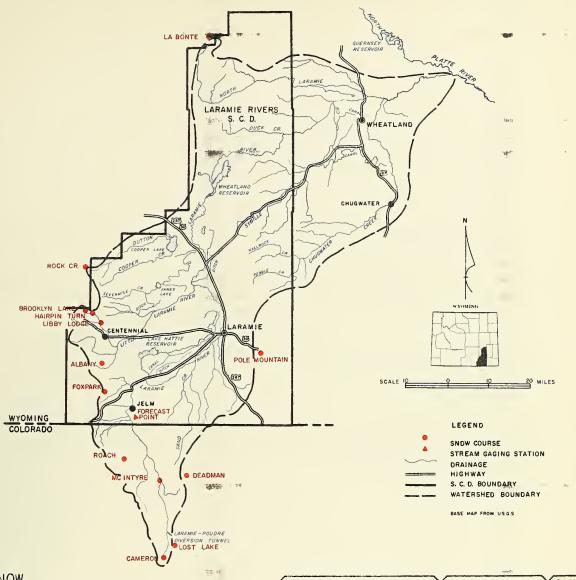
Assuming that normal, or near normal conditions will exist during the balance of the winter, the April to September flow of the North Platte at North Gate, Colorado is expected to be 95,000 acre feet, or 37 per cent of the 1943-1957 seasonal average. The discharge of the Encampment River is anticipated to be 90,000 acre feet, or 58 per cent of normal, with the various tributaries from the Snowy Range also yielding 55 - 60 per cent. The seasonal flow of the North Platte past Saratoga is forecast at 295,000 acre feet or 45 per cent of normal.

Reservoir storage on the North Platte system in Wyoming is close to 81 per cent of the February 1 average, reflecting the low runoff of 1959.

The Board of Supervisors will issue this individual report once a month for the next three months, in order to provide each of you with the current information necessary for farm and ranch operations.

SNOW SURVEY & WATER SUPPLY FORECAST

LARAMIE RIVERS SOIL CONSERVATION DISTRICT / ALBANY COUNTY, WYOMING



SNOW	#\G	OUDDENT INFORMATION PACT OF CORD					PAST	
OHOH			CURRENT INFORMATION			PAST RECORD		YEARS
SNOW COURSE			DATE OF	SNOW DEPTH	WATER CONTENT	WATER C		OF
NO.	NAME	ELEVATION	SURVEY	(Inches)		LAST YEAR		RECORD
5G2	LaBonte	8450	1/27	8	1.4	2.6	4.0	11
6H14	Rock Creek	9800	1/30	42	10.0E	N.R.		
6H1	Brooklyn Lake	10200	1/29	35	8.5	13.8	14.6	22
6H2	Hairpin Turn	9500	1/29	13	2.3	7.2	7.7	22
6H3	Libby Lodge	8700	1/29	13	2.0	6.7	7.0	22
5H1	Pole Mountain	8700	2/1	8	0.8	2.8	3.2	23
6H11	Albany	9400	1/30	12	2.2E		9.6	11
6H12	Fox Park	9200	1/28	14	2.6	4.7	4.1	23
6J12	Roach ^C	9800	2/1	29	7.2	12.0	11.2	18
5J6	Deadman Hill ^C	10300	1/30	22	4.5	11.1	8.8	16
5J15	McIntyre ^C	9100			N.R.	9.5	9.8	11
5J23	Lost Lake ^C	9300	1/31	21	5.6	14.2	12.0	9
5J1	Cameron Pass ^C	10300	2/1	38	9.0	14.9	13.6	21

SNOW SURVEY & WATER SUPPLY FORECAST FOR

LARAMIE RIVERS SOIL CONSERVATION DISTRICT ALBANY COUNTY, WYOMING

February 1, 1960

TO:

The Water User

FROM:

The Board of Supervisors, Laramie Rivers SWCD

SUBJECT:

1960 Preliminary Water Supply Outlook

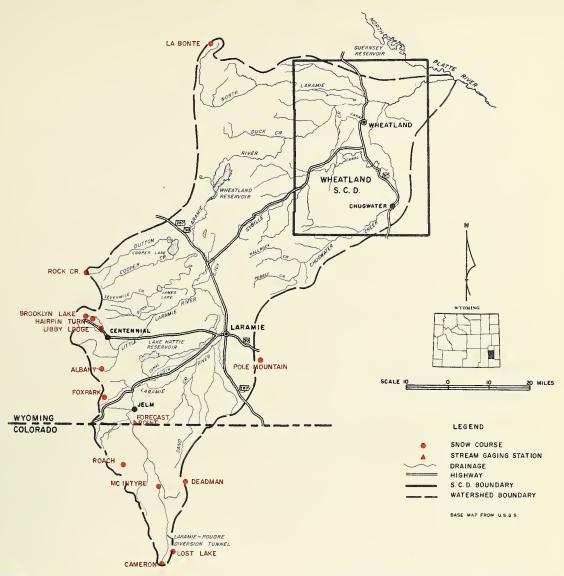
The snow surveys on the Laramie River watershed indicate a serious deficit according to Lyman Ellsbury, Work Unit Conservationist of the Soil Conservation Service. In addition to this, high winter winds have reduced still further the anticipated flow. Unless subsequent storms provide far above normal increments to the snow pack, irrigation supplies will be inadequate this summer.

At this date, the watershed above Jelm indicates an April-September flow of 65,000 acre feet, or 58 per cent of normal. Wheatland reservoir contains 23,800 acre feet of storage, which is 25 per cent of capacity.

This report will be published each month until May 1 in order to provide you with current information for your analysis and use in farm and ranch operations.

SNOW SURVEY & WATER SUPPLY FORECAST FOR

WHEATLAND SOIL CONSERVATION DISTRICT, PLATTE CO. WYOMING AND WHEATLAND IRRIGATION DISTRICT



SNOW			CURRENT INFORMATION			PAST RECORD		PAST
SNOW COURSE			DATE	SHOW	WATER	WATER C		YEARS OF
NO.	NAME	ELEVATION	SURVEY	(Inches)		LAST YEAR		RECORD
5G2	LaBonte	8450	1/27	8	1.4	2.6	4.	0 11
6H14	Rock Creek	9800	1/30	42	10.0	E N.R.		
6H1	Brooklyn Lake	10200	1/29	35	8.5	13.8		
6H2	Hairpin Turn	9500	1/29	13	2.3	7.2	7.	
6H3	Libby Lodge	8700	1/29	13	2.0	6.7	7.	
6H11	Albany	9400	1/30	12	2.2			
5H1	Pole Mountain	8700	2/1	8	0.8			
6H12	Fox Park	9200	1/28	14	2.6		4.	
6J12	Roach ^C	9800	2/1	29	7.2	1	11.	
5J15		9100			N.R.		9.	
5J6	Deadman Hill ^C	10300	1/30		4.5		8.	
5J23	Lost Lake ^C	9300	1/31		5.6	14.2	12.	
5.11	Cameron PassC	10300	2/1	38	9.0	14.9	13.	6 21

SNOW SURVEY & WATER SUPPLY FORECAST

WHEATLAND SOIL CONSERVATION DISTRICT, PLATTE CO. WYOMING
AND

WHEATLAND IRRIGATION DISTRICT

February 1, 1960

TO: The Water User

FROM: The Boards of Supervisors

Wheatland SCD

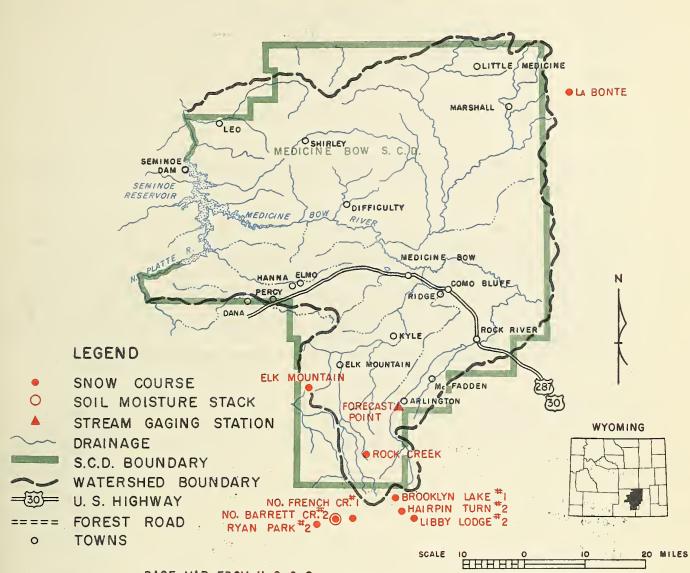
Wheatland Irrigation District

The snow surveys on the Laramie River watershed indicate a serious deficit according to "Bud" Svalberg, Work Unit Conservationist of the Soil Conservation District. In addition to this, high winter winds have reduced still further the anticipated flow. Unless subsequent storms provide far above normal increments to the snow pack, irrigation supplies will be inadequate this summer.

At this date, the watershed above Jelm indicates an April-September flow of 65,000 acre feet, or 58 per cent of normal. Wheatland reservoir contains 23,800 acre feet of storage, which is 25 per cent of capacity.

This report will be published each month until May 1 in order to provide you with current information.

MEDICINE BOW SOIL CONSERVATION DISTRICT
CARBON COUNTY, WYOMING



BASE MAP FROM U.S.G.S.

SNOW			CURREN	NT INFOR	RMATION	PAST	RECORD	
	SNOW COURSE		DATE OF	SNOW DEPTH	WATER CONTENT	WATER CO		YEARS OF
NO. 5G2	LaBonte	ELEVATION 8450	SURVEY-7	(Inches	(Inches)	LAST Y BAR		
6H15 6H14 6H4 6H5 6H1 6H2 6H3 6H6	Elk Mountain Rock Creek North French Creek North Barrett Creek Brooklyn Lake Hairpin Turn Libby Lodge Ryan Park	10000 9800 10200 9400 10200 9500 8700 8400	1/30 1/30 1/30 1/29 1/29 1/29 1/30	42 48 29 35 13 13	N.R. 10.08 11.58 6.58 8.5 2.3 2.0 2.28	N.R. N.R. 17.1 14.7 13.8 7.2 6.7	17.2 11.3 14.6 7.7 7.0 6.5	22 22 22 22 22 22

MEDICINE BOW SOIL CONSERVATION DISTRICT CARBON COUNTY, WYOMING

February 1, 1960

TO:

The Cooperator, Medicine Bow SWCD

FROM:

The Board of Supervisors, Medicine Bow SWCD

SUBJECT:

1960 Preliminary Water Supply Outlook

The snow surveys on the Medicine Bow drainage indicate a serious watershed deficit, according to a report from "Jiggs" James, Work Unit Conservationist, Soil Conservation Service.

The snow courses indicate 50 per cent of normal for this time of the year, and also 50 per cent of what it was February 1, 1959, but heavy winter winds have reduced the snow pack to a figure considerably less than the 50 per cent on the snow course network. In fact, if we assume that mountain storms will be normal from now until snow melt season, the seasonal runoff will still be only 60 per cent of the 1943 to 1957 average. In all probability the district faces an inadequate April to September water supply, however, this report will be issued once a month for the next three months in order to furnish you with current information necessary for farm and ranch operations.

SNOW SURVEYS & WATER SUPPLY FORECASTS FOR LITTLE SNAKE RIVER CONSERVATION DISTRICT

SWEETWATER & CARBON COUNTIES, WYCMING

February 1, 1960

TO: The Cooperator, Little Snake River SWCD

FROM: The Board of Supervisors, Little Snake River SWCD

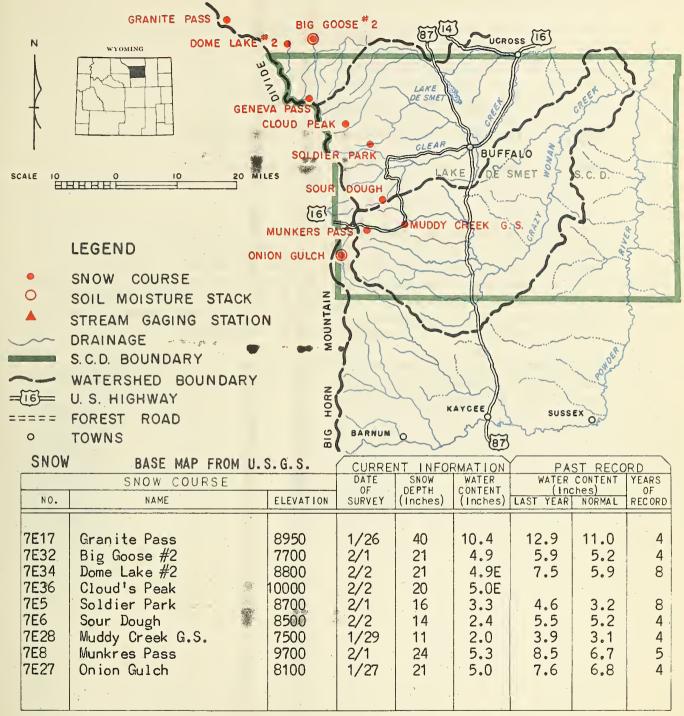
SUBJECT: 1960 Preliminary Water Supply Outlook

The "Old Battle" snow course is considerably below the February 1 normal, according to David Oberwager, Work Unit Conservationist of the Soil Conservation Service. The water content, as of now, is 14.4 inches as compared to the 1943 to 1957 average of 20.0 inches. This is slightly better than the 12.8 inches of water measured one year ago, however strong winter winds have reduced the anticipated April to September flow to 58 per cent of average.

Unless subsequent precipitation proves to be considerably above normal, there will be an inadequate seasonal water supply.

The Board of Supervisors of this district will publish a report the first of each month for the next three months in order to provide each of you with the current information necessary for farm and ranch operations.

LAKE DE SMET SOIL CONSERVATION DISTRICT
JOHNSON COUNTY, WYOMING



SOIL MOISTURE

SOIL MOISTURE STACK			DATE	PERCENTAGE OF				
NO.		N AME	ELEVATION	OF SURVEY	CURRENT	LAST YEAR	NORMAL	OF RECORD
			. 9.00					

" WATER IS THE WEST'S GREATEST RESOURCE '

LAKE DE SMET SOIL CONSERVATION DISTRICT JOHNSON COUNTY, WYOMING

February 1, 1960

TO:

The Cooperator, Lake DeSmet SWCD

FROM:

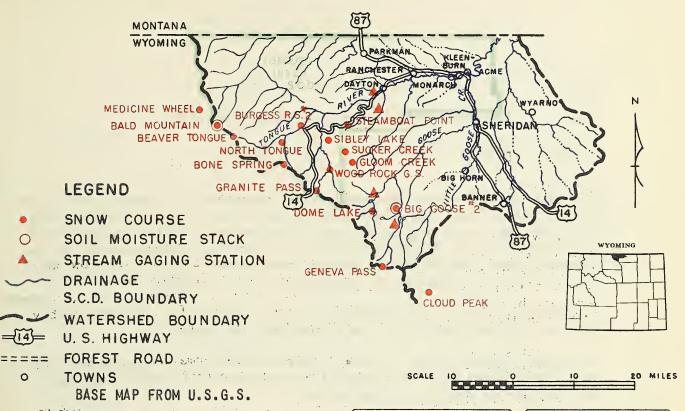
The Board of Supervisors, Lake DeSmet SWCD

SUBJECT: 1960 Preliminary Water Supply Outlook

The Big Horn Mountains, from Granite Pass to Munkres Pass contain a snow pack that is 81 per cent of the February 1 normal, according to Joe Trierweiler, Work Unit Conservationist of the Soil Conservation Service. However, exceptionally high winds have reduced the anticipated yield to about 75 per cent of the 1943-57 average. Unless subsequent storms along the divide prove to be considerably above normal, less than adequate supplies may be expected this coming season.

This report will be mailed on the first of each of the next three months to provide you with current information for your analysis and use in farm and ranch operations.

TONGUE RIVER SOIL CONSERVATION DISTRICT SHERIDAN COUNTY, WYOMING



SNOW		CURREN	T INFOR	MAT-1-ON					
14+	SNOW COURSE			S N O W DEPTH	WATER	WATER (YEARS OF	
NO.	NAME	ELEVATION	OF SURVEY	(Inches)				RECORD	
E21 E20 E33 E10 E11 E12 E15 E18 E14 E13	Medicine Wheel Bald Mountain Beaver Tongue Burgess R.S. #2 Steamboat Point Sibley Lake Sucker Creek North Tongue Bone Spring Gloom Creek Wood Rock G.S. Granite Pass Dome Lake Big Goose #2 Geneva Pass Cloud's Peak	9000 9600 9200 7900 7500 8000 9000 8800 9200 9300 8500 8950 8800 7700	1/28 1/27 1/27 1/29 1/29 1/29 2/2 1/28 1/30 2/2 1/29 1/26 2/2 2/1	37 49 46 22 20 27 26 30 35 31 29 40 21 21	9.8 13.4 11.7 5.4 6.5E 7.6 6.5E 7.6 10.4 4.9 N.R. 5.0E	16.3 17.3 17.3 7.0 6.3 8.6 10.2 11.0 13.4 10.3 8.5 12.9 7.5	10.6 13.0 12.4 5.1 4.5 6.7 7.7 11.2 8.1 7.0 11.0 5.9 5.2	4 4 4 4 4 4 4 4 4 4 4 4 4	

SOIL MOISTURE

	SOIL MOISTURE STACK			PERCENTAGE OF SOIL MOISTURE			
NO.	NAME	ELEVATION	OF SURVEY	CURRENT	LAST YEAR	NORMAL	OF RECORD
			(

TONGUE RIVER SOIL CONSERVATION DISTRICT SHERIDAN COUNTY, WYOMING

February 1, 1960

TO: The Cooperator, Tongue River SWCD

FROM: The Board of Supervisors, Tongue River SWCD

mr. S.

SUBJECT: 1960 Preliminary Water Supply Outlook

The snow survey network on the District watershed is standing at 95 per cent of the normal February 1 average and 73 per cent of the snow pack one year ago, according to a report from Vanden G. Stickley, Work Unit Conservationist of the Soil Conservation Service. Heavy winter winds, however, have reduced the watershed snow pack to a figure considerably less than that indicated on the protected snow courses.

Subsequent storms on the watershed prove to be normal, or near normal, the anticipated runoff will be 85 per cent of normal.

In order to provide you with up-to-date information necessary for farm and ranch operations, the Board of Supervisors will issue this report each month for the next three months.

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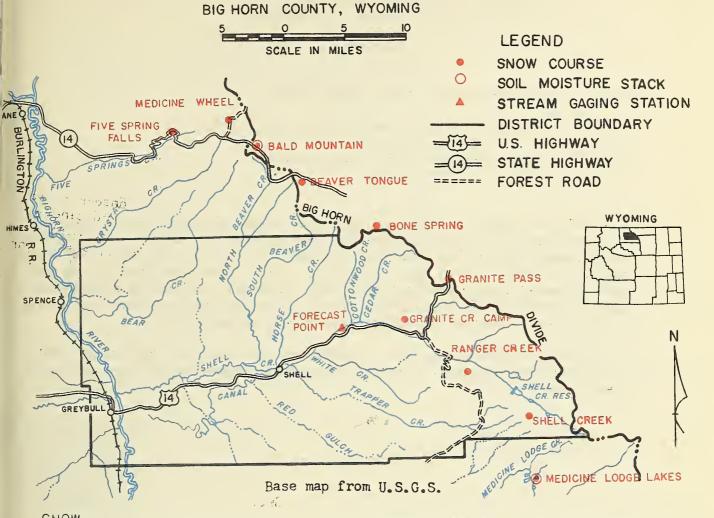
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17 July 1973

SHELL VALLEY SOIL CONSERVATION DISTRICT



SNOW	Jos yallar		CURRE	NT INFORMA	TION	PAST R	ECORD	
	SNOW COURSE		DATE	S N O W D E P T H	WATER CONTENT	WATER C	ONTENT	YE ARS
NO.	NAME	ELEVATION	SURVEY	(Inches)		LAST YEAR		RECORO
7E30 7E31 7E21 7E20 7E18 7E17 7E22 7E4 7E23 7E24	Medicine Wheel Five Springs Falls Bald Mountain Beaver Tongue Bone Spring Granite Pass GBanite Creek Camp Ranger Creek Shell Creek Medicine Lodge Lakes	9000 7500 9600 9200 9200 8950 7800 8800 9600 9500	1/28 1/29 1/27 1/27 1/30 1/26	37 14 49 46 35 40 32 27	9.8 3.2 13.4 11.7 8.4E 10.4 N.R. N.R. 7.7E 6.8	16.3 8.5 17.3 17.3 13.4 12.9 4.1 7.8 11.3 9.2	10.6 4.5 13.0 12.4 11.2 11.0 3.8 6.7 10.3 8.1	4 4 4 4 4 4 4 4 4

SOIL MOISTURE

SOIL MOISTURE STACK

NO. NAME

DATE
OF
SURVEY

CURRENT

LAST YEAR NORMAL
RECORD

SNOW SURVEY 8 WATER SUPPLY FORECAST

FOR

SHELL VALLEY SOIL CONSERVATION DISTRICT BIG HORN COUNTY, WYOMING

February 1, 1960

TO:

The Cooperator, Shell Valley SWCD

FROM:

The Board of Supervisors, Shell Valley SWCD

SUBJECT: 1960 Preliminary Water Supply Outlook

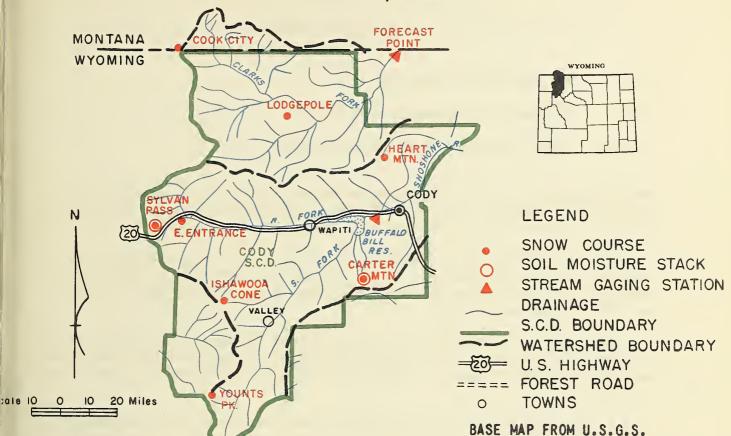
A report from Dominic J. Feeley, Work Unit Conservationist, Soil Conservation Service to the Board states that the snow survey network from Medicine Lodge Lakes north to Medicine Wheel contains 88 per cent of the normal water content for this time of year, and 67 per cent of the snow pack of one year ago. However, exceptionally high winter winds will reduce the anticipated seasonal runoff to 80 per cent of normal, unless subsequent snow fall along the Big Horn divide proves to be considerably above normal.

This report will be issued once a month for the next three months in order to provide you with the up-to-date information necessary for farm and ranch operations.

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FOR

CODY SOIL CONSERVATION DISTRICT PARK COUNTY, WYOMING



TOGWOTEE PASS

SNO	DW	CURRENT INFORMATION Y PAST RECORD						
	SNOW COURSE			SNOW	WATER	WATER CONTENT (Inches)		YEARS OF
NO.	NAME	ELEVATION	OF SURVEY	DEPTH (Inches)	(Inches)	LAST YEAR		RECORD
10D7	Cooke City ^m	7400	2/1	14	2.8	5.0	6.2	11
9E1	Lodgepole	8200	2/1	19	3.3	6.8	8.8	4
	Heart Mountain				N.R.			
10E5	Sylvan Pass	7100	1/30	23	4.1	9.6	10.2	16
10E6	East Entrance	7000	1/30	18	3.5	7.3	8.7	15
9E4	Carter Mountain	7800	1/26	16	3.7	1.4		3
9E5	Ishawooa Cone	9200	1/30	87				
9F18	Younts Peak	8500	1/30	50	13.5E			
10F9	Togwotee Pass	9600	1/29	54	14.4	20.9	20.6	24

SOIL MOISTURE

	SOIL MOISTURE STACK			PERCENTAGE OF	SOIL MO	ISTURE	YEARS OF
NO.	NA ME	ELEVATION	OF SURVEY	CURRENT	LAST YEAR	NORMA L	RECORD
					}		
					ļ	l	

CODY SOIL CONSERVATION DISTRICT PARK COUNTY, WYOMING

February 1, 1960

TO:

The Cooperator, Cody SWCD

FROM:

The Board of Supervisors, Cody SWCD

SUBJECT: 1960 Preliminary Water Supply Outlook

The snow surveys on the Shoshone River above Buffalo Bill Reservoir and on Clark's Fork indicate a serious watershed deficit, according to Jim Rowles, Work Unit Conservationist for the Soil Conservation Service.

The snow pack on the Clark's Fork is 41 per cent of the normal amount for this time of the year and only 52 per cent of the February 1, 1959 water content. On the Shoshone watershed the pack is standing at 56% of normal and 58% of last year's data.

From these data, the anticipated flow at Chance is expected to be 55 per cent of normal, and the flow into Buffalo Bill Reservoir is expected to be 66 per cent of the 1943-57 normal. Reservoir storage is 58 per cent of the February 1 normal.

This report will be mailed each month for the next three months to provide you with current information for your analysis and use in farm and ranch operations.

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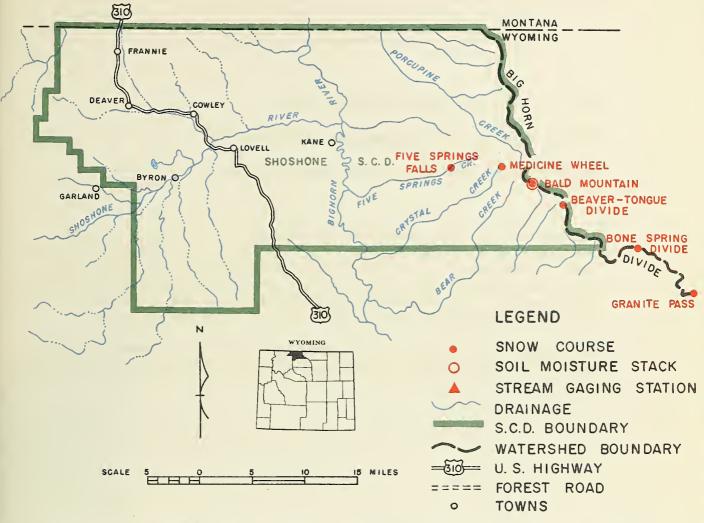
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SHOSHONE SOIL CONSERVATION DISTRICT BIG HORN & PARK COUNTIES, WYOMING



SN	SNOW BASE MAP FROM U.S.G.S.			RENT INFORMATION PAST RECORD				₹D
	SNOW COURSE		DATE	SNOW DEPTH	WATER CONTENT	WATER C		YE ARS OF
NO.	NAME	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	NORMAL	RECORD
7E3 7E3 7E2 7E2 7E1 7E1	Medicine Wheel Bald Mountain Beaver-Tongue Bone Spring Divide	7500 9000 9600 9200 9200 8950	1/29 1/28 1/27 1/27 1/30 1/26	14 37 49 46 35 40	3.2 9.8 13.4 11.7 8.4E 10.4	8.5 16.3 17.3 17.3 13.4 12.9	4.5 10.6 13.0 12.4 11.2 11.0	4 4 4 4 4

SOIL MOISTURE

	SOIL MOISTURE STACK			PERCENTAGE OF SOIL MOISTURE			
NO.	. NAME	ELEVATION	OF SURVEY	CURRENT	LAST YEAR	NORMAL	OF RECORD
	<u> </u>	l			L	L	

SHOSHONE SOIL CONSERVATION DISTRICT BIG HORN & PARK COUNTIES, WYOMING

F.ebruary 1, 1960

TO: -The Cooperator, Shoshone SWCD

FROM: The Board of Supervisors, Shoshone SWCD

SUBJECT: 1960 Preliminary Water Supply Outlook

The Big Horn Mountain snow pack is standing at 91 per cent of normal and 66 per cent of last year at this time, according to George Danielson, Work Unit Conservationist, Soil Conservation Service. However, heavy winter winds have reduced the anticipated April-September runoff to about 80% of normal. Unless subsequent precipitation along the Big Horn divide is considerably above normal, water supplies will not be adequate.

This report will be mailed each month until May 1, in order to provide you with current information for your analysis and use in farm and ranch operations.

Agencies Cooperating in Wyoming Snow Surveys

FEDERAL

- U.S. Department of Agriculture Forest Service Soil Conservation Service
- U.S. Department of Commerce Weather Bureau
- U.S. Department of Interior
 Bureau of Reclamation
 Geological Survey
 National Park Service

STATE
State Engineer of Wyoming

PRIVATE
Wheatland Irrigation District

Federal - State - Private COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"